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Notice of Allowability	Application No.	Applicant(s)	
	09/100,569	BURKE ET AL.	
	Examiner	Art Unit	
	Shuwang Liu	2634	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/13/04.
2. ☒ The allowed claim(s) is/are 1-17.
3. ☒ The drawings filed on 29 May 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-17 are allowed.
2. The following is an examiner's statement of reasons for allowance: the prior art fails to teach and suggest a wireless communication system having mobile unit and a base station receiver directing the transmitted power level of the mobile unit, a method of receiving a received signal on a receive path of the base station receiver, the method comprising injecting a desensitization signal into the receive path raise the noise level of the receive path relative to the level the received signal on the receive path and responsive to changes in bit error rate and/or frame error rate for the signal received at the base station from the mobile unit, dynamically adjusting the power level of the desensitization signal based on the bit error rate and/or said frame error rate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is 571 272-3036. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Shuwang Liu
Primary Examiner
Art Unit 2634

May 4, 2005

Depending on the application, the desensitization signal can be injected into the receive path at the radio frequency (RF), intermediate frequency (IF) or baseband stages of the receiver. The desensitization signal can take a variety of forms, such as broadband noise, a continuous wave signal, a modulated signal, or a digital pseudo-random noise sequence.

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BRIEF DESCRIPTION OF THE DRAWING

Other aspects and advantages of the present invention may become apparent upon reading the following detailed description and upon reference to the drawings in which:

FIG. 1 is a diagram showing how receiver desensitization is performed in the prior

10 art;

FIG. 2 shows an embodiment of the receiver desensitization system according to the principles of the present invention in which broadband noise is injected into the receive path of the receiver;

FIG. 3 shows an embodiment of the receiver desensitization system according to the principles of the present invention in which a continuous wave (CW) signal is injected into the receive path of the receiver;

FIG. 4 shows an embodiment of the receiver desensitization system according to the principles of the present invention in which a I/Q modulated signal is injected into the receive path of the receiver;

FIG. 5 shows an embodiment of the receiver desensitization system according to the principles of the present invention in which a mixer modulated signal is injected into the receive path of the receiver; and

FIG. 6 shows an embodiment of the receiver desensitization system according to the principles of the present invention in which an attenuator modulated signal is injected into the receive path of the receiver.

DETAILED DESCRIPTION

Illustrative embodiments of the desensitization system according to the principles of the present invention for a wireless receiver are described below as the desensitization system might be implemented to set the sensitivity of a wireless receiver by desensitizing the wireless receiver. The receiver desensitization system accomplishes this by injecting a desensitization signal within the operating bandwidth of the received signal onto the receive path of a wireless receiver. Rather than attenuating the received signal on the

Fig. 7a shows a baseband or intermediate frequency implementation of the desensitization system.

Fig. 7b shows another baseband or intermediate frequency implementation of the desensitization system.